

Applicant: Jay M. Short
Application No.: 10/034,622
Filed: December 21, 2001
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In the claims

1. A catalogued nucleic acid library formed from an organism sample comprised of a plurality of organisms, formed by process comprising the steps of:
 - (a) forming a derived organism sample from an initial organism sample, such that the proportional representations of the constituents in said derived organism sample are adjusted to advantage by performing in any order, and at least one time, at least one step selected from the group consisting of: (i) subjecting a working organism sample to a process of selection, and (ii) recovering a fraction of a working organism sample having at least one desired characteristic;
 - (b) isolating a nucleic acid sample from said derived organism sample; and
 - (c) forming a derived nucleic acid library from said nucleic acid sample, such that the proportional representations of the constituents in said nucleic acid library are adjusted to advantage by performing in any order, and at least one time, at least one step selected from the group consisting of: (i) subjecting a working nucleic acid sample to a period of selection, (ii) recovering a fraction of a working nucleic acid sample having at least one desired characteristic, and (iii) assembling a working nucleic acid sample into a nucleic acid library.

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2. (Amended) The catalogued nucleic acid library according to claim 1 wherein the step of isolating a nucleic acid sample comprises isolating genomic DNA; and wherein the step of forming a derived nucleic acid library comprises forming a genomic DNA library, such that a catalogued genomic DNA library is formed.
3. (Amended) The catalogued nucleic acid library according to claim 1 wherein the step of isolating a nucleic acid sample comprises isolating genomic gene cluster DNA; and wherein the step of forming a derived nucleic acid library comprises forming a genomic gene cluster DNA library, such that a catalogued genomic gene cluster DNA library is formed.
4. (Amended) The catalogued nucleic acid library according to claim 1 wherein the step of isolating a nucleic acid sample comprises isolating RNA; and wherein the step of forming a derived nucleic acid library comprises forming a cDNA library, such that a catalogued cDNA library is formed.